

IN THE CLAIMS

What is claimed is:

- 1 1. A method comprising:
  - 2 receiving scrambled data;
  - 3 receiving a first access key to descramble the scrambled data;
  - 4 receiving a second access key to descramble the scrambled data.

1 2. The method of claim 1 wherein the first access key is associated with a  
2 first conditional access unit.

1 3. The method of claim 2 wherein the second access key is associated with  
2 a second conditional access unit.

1 4. The method of claim 3 further comprising descrambling the scrambled  
2 data using the first conditional access unit and the first key.

1 5. The method of claim 4 further comprising recording the scrambled data  
2 and the second access key in a computer readable memory.

1 6. The method of claim 5 further comprising retrieving the second access  
2 key and the scrambled data from the memory.

1    7.    The method of claim 6 further comprising descrambling the scrambled  
2    data using the second conditional access unit and the second access key.

1    8.    The method of claim 7 wherein the second access key permits the second  
2    conditional access unit to descramble the scrambled data during a time period  
3    including a present time period and a future time period.

1    9.    The method of claim 7 wherein the first conditional access unit  
2    descrambles the scrambled data during a first period, and the second conditional  
3    access unit descrambles the scrambled data during a second period that is  
4    different from the first period.

1    10.   A copy management method for controlling the recording and  
2    reproduction of digital content comprising:  
3       receiving a digital bitstream including program data, said program data  
4       including system information and said digital content in a scrambled format;  
5       descrambling said digital content in a scrambled format to provide a first  
6       output including said digital content in a descrambled format;  
7       providing a second output including said digital content in the scrambled  
8       format;

9           outputting said first output including said digital content in the  
10   descrambled format and the second output including said digital content in the  
11   scrambled format;  
12   ~~receiving a plurality of access requirements, wherein each access~~  
13   requirement can descramble the program data;  
14   ~~selecting at least one of the access requirements;~~  
15   ~~storing the scrambled program data and the selected at least one access~~  
16   ~~requirement.~~

101 P1 11. The copy management method of claim 10, further comprising receiving  
2 and recording said digital content of said second output in a scrambled format.

102 D1 12. The copy management method of claim 10, further comprising:  
2 demultiplexing said digital content from said program data; and  
3 decompressing said digital content in a descrambled format to a  
4 decompressed state.

103 P2 13. The copy management method of claim 10, wherein said decompressing  
is executed in an MPEG decoder.

104 P3 14. The copy management method of claim 10, wherein said digital content is  
content contained in digital television transmissions.

*15.* The copy management method of claim 10, wherein said digital content is  
content downloaded from the Internet.

*1 16.* The copy management method of claim 10, wherein said descrambling is  
2 carried out in a first conditional access unit.

*1 17.* The copy management method of claim 16, further comprising:  
2 retrieving the stored scrambled program data and the stored access  
3 requirement;  
4 descrambling the scrambled program using the access requirement in a  
5 second conditional access unit.

*18.* The copy management method of claim 10, wherein said descrambling  
2 comprises:  
3 extracting a descrambling key included in said program data; and  
4 applying said descrambling key to said digital content in a scrambled  
5 format to provide said digital content in a descrambled format.

*19.* An apparatus comprising:  
2 a receiver to receive scrambled data;  
3 a first descrambler to use a first access key to descramble the scrambled  
4 data;

5           a second descrambler to use a second access key to descramble the  
6       scrambled data.

1   20.   The apparatus of claim 19 wherein the first access key is associated with  
2       a first conditional access unit.

1   21.   The apparatus of claim 20 wherein the second access key is associated  
2       with a second conditional access unit.

1   22.   The apparatus of claim 21 wherein the first descrambler can descramble  
2       the scrambled data using the first conditional access unit and the first key.

1   23.   The apparatus of claim 22 further comprising a recorder to record the  
2       scrambled data and the second access key in a computer readable memory.

1   24.   The apparatus of claim 23 further comprising a retriever to retrieve the  
2       second access key and the scrambled data from the memory.

1   25.   The apparatus of claim 24 wherein the second descrambler can  
2       descramble the scrambled data using the second conditional access unit and the  
3       second access key.

1    26. The apparatus of claim 25 wherein the second access key permits the  
2    second conditional access unit to descramble the scrambled data during a time  
3    period including a present time period and a future time period.

1    27. The apparatus of claim 25 wherein the first conditional access unit  
2    descrambles the scrambled data during a first period, and the second conditional  
3    access unit descrambles the scrambled data during a second period that is  
4    different from the first period.

1    28. A copy management apparatus for controlling the recording and  
2    reproduction of digital content comprising:  
3         a receiver to receive a digital bitstream including program data, said  
4         program data including system information and said digital content in a  
5         scrambled format;  
6         a descrambler to descramble said digital content in a scrambled format to  
7         provide a first output including said digital content in a descrambled format, to  
8         provide a second output including said digital content in the scrambled  
9         format;  
10        outputting said first output including said digital content in the  
11        descrambled format and the second output including said digital content in the  
12        scrambled format;

13 receiving a plurality of access requirements, wherein each access  
14 requirement can descramble the program data;  
15 selecting at least one of the access requirements;  
16 storing the scrambled program data and the selected at least one access  
17 requirement.

29. The copy management apparatus of claim 28, further comprising  
1 receiving and recording said digital content of said second output in a scrambled  
2 format.

1 30. The copy management method of claim 28, further comprising:  
2 demultiplexing said digital content from said program data; and  
3 decompressing said digital content in a descrambled format to a  
4 decompressed state.

31. The copy management method of claim 28, wherein said decompressing  
1 is executed in an MPEG decoder.

32. The copy management method of claim 28, wherein said digital content is  
1 content contained in digital television transmissions.

33. The copy management apparatus of claim 28, wherein said digital content  
1 is content downloaded from the Internet.

1 34. The copy management apparatus of claim 28, wherein said descrambling  
2 is carried out in a first conditional access unit.

1 35. The copy management apparatus of claim 34, further comprising:  
2 retrieving the stored scrambled program data and the stored access  
3 requirement;  
4 descrambling the scrambled program using the access requirement in a  
5 second conditional access unit.

1 36. The copy management apparatus of claim 28, wherein said descrambling  
2 step comprises:  
3 extracting a descrambling key included in said program data; and  
4 applying said descrambling key to said digital content in a scrambled  
5 format to provide said digital content in a descrambled format.

1 37. A computer readable medium containing instructions which, when  
2 executed by a processing system, cause the system to perform:  
3 receiving scrambled data;  
4 receiving a first access key to descramble the scrambled data;  
5 receiving a second access key to descramble the scrambled data.

1    38.   The medium of claim 37 wherein the first access key is associated with a  
2    first conditional access unit.

1    39.   The medium of claim 38 wherein the second access key is associated  
2    with a second conditional access unit.

1    40.   The medium of claim 39 further comprising descrambling the scrambled  
2    data using the first conditional access unit and the first key.

1    41.   The medium of claim 40 further comprising recording the scrambled data  
2    and the second access key in a computer readable memory.

1    42.   The medium of claim 41 further comprising retrieving the second access  
2    key and the scrambled data from the memory.

1    43.   The medium of claim 42 further comprising descrambling the scrambled  
2    data using the second conditional access unit and the second access key.

1    44.   The medium of claim 43 wherein the second access key permits the  
2    second conditional access unit to descramble the scrambled data during a time  
3    period including a present time period and a future time period.

1 45. The medium of claim 43 wherein the first conditional access unit  
2 descrambles the scrambled data during a first period, and the second conditional  
3 access unit descrambles the scrambled data during a second period that is  
4 different from the first period.

1 46 A computer readable medium containing instructions which, when  
2 executed by a processing system, cause the system to perform a method for  
3 controlling the recording and reproduction of digital content comprising:  
4 receiving a digital bitstream including program data, said program data  
5 including system information and said digital content in a scrambled format;  
6 descrambling said digital content in a scrambled format to provide a first  
7 output including said digital content in a descrambled format;  
8 providing a second output including said digital content in the scrambled  
9 format;  
10 outputting said first output including said digital content in the  
11 descrambled format and the second output including said digital content in the  
12 scrambled format;  
13 receiving a plurality of access requirements, wherein each access  
14 requirement can descramble the program data;  
15 selecting at least one of the access requirements;

*Cont*  
16        storing the scrambled program data and the selected at least one access  
17        requirement.

*sub B*  
47.      The medium of claim 46, wherein the instructions, when executed by the  
processing system, further cause the system to perform receiving and recording  
said digital content of said second output in a scrambled format.

1        48.     The medium of claim 46, wherein the instructions, when executed by the  
2        processing system, further cause the system to perform:  
3               demultiplexing said digital content from said program data; and  
4               decompressing said digital content in a descrambled format to a  
5               decompressed state.

*10 11 12*  
49.      The medium of claim 47, wherein said decompressing is executed in an  
MPEG decoder.

*10 11 12*  
50.      The medium of claim 46, wherein said digital content is content contained  
in digital television transmissions.

1        51.     The medium of claim 46, wherein said digital content is content  
2        downloaded from the Internet.

1    52. The medium of claim 46, wherein said descrambling is carried out in a first  
2    conditional access unit.

1    53. The medium of claim 52, wherein the instructions, when executed by the  
2    processing system, further cause the system to perform:  
3                retrieving the stored scrambled program data and the stored access  
4    requirement;  
5                descrambling the scrambled program using the access requirement in a  
6    second conditional access unit.

1    54. The medium of claim 46, wherein said descrambling step comprises:  
2                extracting a descrambling key included in said program data; and  
3                applying said descrambling key to said digital content in a scrambled  
4    format to provide said digital content in a descrambled format.

1    55. An apparatus comprising:  
2                means for receiving scrambled data;  
3                means for receiving a first access key to descramble the scrambled data;  
4                means for receiving a second access key to descramble the scrambled  
5    data.

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1    56.    The apparatus of claim 55 wherein the first access key is associated with  
2    a first conditional access unit.

1    57.    The apparatus of claim 56 wherein the second access key is associated  
2    with a second conditional access unit.

1    58.    The apparatus of claim 57 further comprising means for descrambling the  
2    scrambled data using the first conditional access unit and the first key.

1    59.    The apparatus of claim 58 further comprising means for recording the  
2    scrambled data and the second access key in a computer readable memory.

1    60.    The apparatus of claim 59 further comprising means for retrieving the  
2    second access key and the scrambled data from the memory.

1    61.    The apparatus of claim 60 further comprising means for descrambling the  
2    scrambled data using the second conditional access unit and the second access  
3    key.

1    62.    The apparatus of claim 61 wherein the second access key permits the  
2    second conditional access unit to descramble the scrambled data during a time  
3    period including a present time period and a future time period.

1       63. The apparatus of claim 61 wherein the first conditional access unit  
2       descrambles the scrambled data during a first period, and the second conditional  
3       access unit descrambles the scrambled data during a second period that is  
4       different from the first period.

1       64. A copy management apparatus for controlling the recording and  
2       reproduction of digital content comprising:  
3              means for receiving a digital bitstream including program data, said  
4       program data including system information and said digital content in a  
5       scrambled format;  
6              means for descrambling said digital content in a scrambled format to  
7       provide a first output including said digital content in a descrambled format;  
8              means for providing a second output including said digital content in the  
9       scrambled format;  
10          means for outputting said first output including said digital content in the  
11       descrambled format and the second output including said digital content in the  
12       scrambled format;  
13          means for receiving a plurality of access requirements, wherein each  
14       access requirement can descramble the program data;  
15          means for selecting at least one of the access requirements;

~~16  
17~~ means for storing the scrambled program data and the selected at least one access requirement.

~~18  
21~~ 65. The copy management apparatus of claim 64, further comprising means for receiving and recording said digital content of said second output in a scrambled format.

~~19  
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21  
22  
23  
24~~ 66. The copy management apparatus of claim 64, further comprising:  
means for demultiplexing said digital content from said program data; and  
means for decompressing said digital content in a descrambled format to  
a decompressed state.

~~25  
26  
27~~ 67. The copy management apparatus of claim 64, wherein said decompressing is executed in an MPEG decoder.

~~28  
29~~ 68. The copy management apparatus of claim 64, wherein said digital content is content contained in digital television transmissions.

~~30  
31~~ 69. The copy management apparatus of claim 64, wherein said digital content is content downloaded from the Internet.

~~32  
33~~ 70. The copy management apparatus of claim 64, wherein said descrambling is carried out in a first conditional access unit.

1       71. The copy management apparatus of claim 70, further comprising:  
2           means for retrieving the stored scrambled program data and the stored  
3       access requirements;  
4           means for descrambling the scrambled program using the access  
5       requirement in a second conditional access unit.

1       72. The copy management apparatus of claim 64, wherein said means for  
2       descrambling comprises:  
3           means for extracting a descrambling key included in said program data;  
4       and  
5           means for applying said descrambling key to said digital content in a  
6       scrambled format to provide said digital content in a descrambled format.